## **CLAIMS**

What is claimed is:

unit; and

1	1. A modular AC section for a power supply unit that provides electrical power to a plurality
2	of electrical equipment, comprising:
3	a top in which a plurality of holes are formed and into which screws are inserted for
4	attaching said modular AC section to said power supply unit;
5	a back adjacent said top;
6	a circuit breaker attached either to said top or back;
7	a connector attached to said top, said connector adapted to mate with a corresponding
8	connector from a power supply module inserted into the modular power supply

wiring that connects said circuit breaker to said connector.

- 2. The modular AC section of claim 1 wherein said connector comprises a blind mating connector.
- 1 3. The modular AC section of claim 1 wherein said connector comprises a blind mating and 2 hot pluggable connector.
- 1 4. The modular AC section of claim 1 further including a plurality of connectors attached to 2 said top and adapted to mate with corresponding connectors from power supply modules inserted
- 3 into the modular power supply unit.

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- 1 5. The modular AC section of claim 4 wherein said connectors comprise blind mating
- 2 connectors.
- 1 6. The modular AC section of claim 1 further including a plurality of circuit breakers.
- 1 7. The modular AC section of claim 1 further including two AC input connections.
  - 8. The modular AC section of claim 1 wherein said back is perforated.
    - 9. The modular AC section of claim 1 wherein said back is perforated to permit air flow to assist in removing heat from said power supply unit.
    - 10. The modular AC section of claim 1 further including a locator post in said top which mates with a corresponding locator recess in said power supply unit.
- 1 11. The modular AC section of claim 1 further including redundant power feeds.
- 1 12. A rack of electrical computer equipment, comprising:
- 2 a plurality of computers housed in said rack;
- a power supply unit housed in said rack and providing power to said computers, said power
- supply unit includes a power supply housing mated to said rack in which a power
- supply module can be inserted and an AC section that mates to said power supply
- 6 housing and provides output electrical power, said AC section comprises:

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7	a top in which a plurality of holes are formed and into which screws are
8	inserted for attaching said AC section to said power supply housing;
9	a back adjacent said top;
0	a circuit breaker attached either to said top or back;
1	a connector attached to said top, said connector adapted to mate with a
2	corresponding connector from a power supply module inserted into
3	the power supply housing; and
4	wiring that connects said circuit breaker to said connector.

- 13. The rack of electrical computer equipment of claim 12 wherein said connector comprises a blind mating connector.
- 14. The rack of electrical computer equipment of claim 12 further including a plurality of connectors attached to said top and adapted to mate with corresponding connectors from power supply modules inserted into the power supply housing.
- 1 15. The rack of electrical computer equipment of claim 14 wherein said connectors comprise blind mating connectors.
- 1 16. The rack of electrical computer equipment of claim 12 further including a plurality of circuit breakers.

- 1 17. The rack of electrical computer equipment of claim 12 further including two AC input
- 2 connections.
- 1 18. The rack of electrical computer equipment of claim 12 wherein said back is perforated.
- 1 19. The rack of electrical computer equipment of claim 12 wherein said back is perforated to
- 2 permit air flow to assist in removing heat from said power supply unit.
  - 20. The rack of electrical computer equipment of claim 12 further including power feeds.
  - 21. A rack of electrical computer equipment, comprising:
    - a plurality of computers housed in said rack;
    - a power supply unit housed in said rack and providing power to said computers, said power supply unit includes a power supply housing mated to said rack in which a power supply module can be inserted and a modular means for interconnecting AC input power to a power supply module.
- 1 22. The rack of electrical computer equipment of claim 21 wherein said modular means is
- 2 screwed to said power supply housing.
- 1 23. The rack of electrical computer equipment of claim 21 wherein said modular means
- 2 comprises redundant power feeds.